



BORETEST

TRAIN AXLES INSPECTION SYSTEM



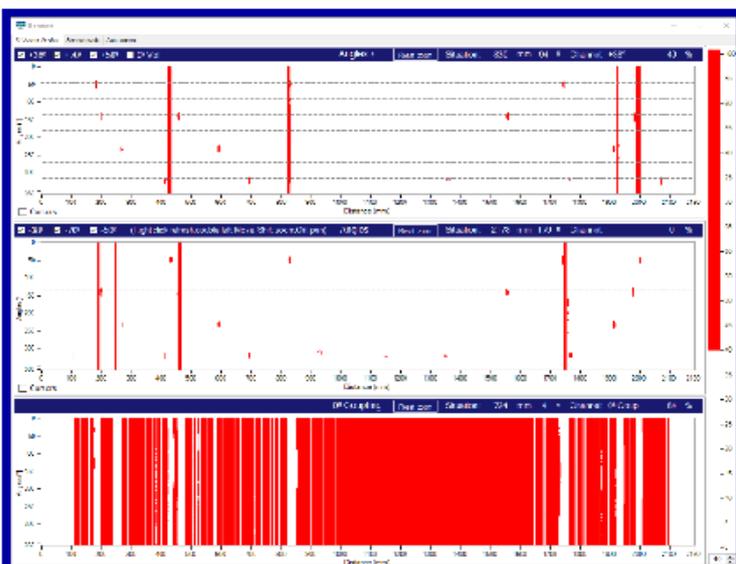
INTRODUCTION

The **Boretest** unit is an **ultrasonic train hollow axles inspection system**, certified by the **Deutsche Bahn**, completely designed and manufactured by **Tecnitest Ingenieros SL**, a leading European NDT Engineering Company from Madrid, Spain

It offers an easy and reliable solution for in-service train axle inspection.

CLIENT BENEFITS

- ✓ **RAPID** - The complete axle is inspected from one side of the train in a very short time
- ✓ **PORTABLE/ROBUST** - The whole system is transported on a forklift truck
- ✓ **EASY TO USE** - Once a simple calibration set-up is carried out, there is no need to carry out complicated calibrations prior to the inspection.
- ✓ **VERSATILE** - Able to inspect different type of axles within a range.
- ✓ **ACCURATE** - 100% of the axle is inspected utilizing different angular transducers to maximize the probability of detection
- ✓ **TRACEALBE** - The results of every inspection are recorded for the further analysis and archiving including the calibration of the system.





KEY BENEFITS

ULTRASONIC TRANSDUCERS

By utilising different straight and angular beam transducers, up to 16, to maximize the probability of detection, the Borettest has the ability to accurately inspect the complete axle. Also the Borettest system has the capability to monitor the volume of the oil couplant throughout the inspection using a 0° transducers for verification.

REPORTING & DATA ANALYSIS

Through a complete user-friendly software package, the Borettest plots and records the results of every inspection for further analysis and archiving, including the calibration of the system, again highlighting its efficiency. During the inspection, both “A” and “C” scans can be viewed in real time.

“ONE SIDE ONLY” TESTING

The Borettest is able to test the complete axle from just one side of the train with 100% of the axle being inspected at once providing a cost, time and space effective solution.

TECHNICAL CHARACTERISTICS

Inspection Technique	Pulse-echo system with oil coupling
Number of Channels	Up to 16*
Inspection Rate	30-45 min per axle
Dimensions	Length: 2420mm* Width: 969mm* Height: 3080mm* Weight: 1200Kg*
Bore diameter Range	25-90 mm*
Inspection Range	2600mm*
Coupling	Oil 11EP
Power Supply	230V

*Customizable

System Certified by Deutsche Bahn